

## **1999 NTEP PERENNIAL RYEGRASS CULTIVAR TRIAL**

In Early September 1999, the NTEP Perennial Ryegrass Cultivar Trial was seeded at the Plumdale Site at NSAC. Plot size was 4' x 6', with three replicates and 137 cultivars (3 in addition to the 134 in the official NTEP test). The trial will be maintained as outlined below.

- 1"- 2" mowing height
- 0.5 - 0.75 lb/N/1000 ft<sup>2</sup>/growing month
- no irrigation or to prevent dormancy
- no fungicides unless severe stand loss is possible
- weed and insect control to prevent stand loss

The performance of the plots will be assessed over a 4 year period. The history of perennial ryegrass performance in our region has been to suffer winter damage in at least every second winter. The persistence of entries over time will be of great importance to the end users in our region.

The winter of 1999-2000 was not particularly long or severe. Some damage was found on the plots in the spring and may have been due to ice sheeting in minor depressions. The poor spring regrowth conditions led to below expected quality rating until July. Several entries performed well throughout the growing season and are found at the top of the rankings. EP53, SRX 4801 and CIS-PR-72 were the highest ranked entries for turfgrass quality in 2000 (Table).

Spring green-up ratings, fall plot coverage and genetic color are found in Table .

The winter of 2000-2001 has produced a continuous snow cover for greater than 3 months, greatly increasing the potential for snow mold and for other problems associated with winters in the region. The performance of the cultivars, especially with respect to a lateness of fall dormancy onset will be interesting to observe in the spring of 2001.

**Table 10. NTEP 1999 Perennial Ryegrass Test. 2000 turfgrass quality ratings.**

<u>Entry</u>	<u>Turfgrass Quality Ratings (9 - best, 1-</u>							<u>Mean</u>
	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	
EP53	5.67	7.00	6.33	6.67	7.33	8.00	6.33	6.76
SRX 4801	5.67	6.33	6.33	7.00	6.67	8.00	6.67	6.67
CIS-PR-72	5.67	5.67	6.00	6.67	7.33	7.67	7.67	6.67
JR-187	5.67	6.00	6.00	6.33	6.33	7.67	7.00	6.43
Esquire	5.00	6.33	6.33	6.67	6.67	7.33	6.33	6.38
PST-2CRR	5.33	6.33	6.00	6.67	7.00	7.33	6.00	6.38
Koos R-71	6.00	5.00	5.67	6.33	6.67	7.33	7.33	6.33
Secretariat	5.00	6.00	5.67	7.33	7.00	7.33	6.00	6.33
Elfkin	5.00	6.33	5.33	6.67	6.67	7.33	6.67	6.29
PST-2RT	5.00	6.67	6.00	6.33	7.00	6.67	6.33	6.29
Manhattan 3	6.00	6.67	5.33	6.67	6.33	6.67	6.33	6.29
Premier	5.67	6.67	5.67	6.67	6.00	7.00	6.00	6.24
Pennington-11301	5.00	7.00	6.00	6.00	7.00	6.67	6.00	6.24
R8000	5.33	5.67	6.00	6.33	7.33	6.67	6.33	6.24
Radiant	4.67	7.33	6.33	6.33	6.33	7.33	5.00	6.19
Buccaneer	5.33	6.33	5.33	6.33	6.00	7.33	6.67	6.19
Pick PR B-97	4.33	6.33	5.67	6.67	7.33	6.67	6.33	6.19
Affinity	4.33	6.33	5.67	7.00	6.67	7.00	6.33	6.19
SR 4500	5.00	6.00	6.00	6.33	6.67	7.33	6.00	6.19
PST-CATS	5.00	7.00	6.00	6.00	6.33	7.33	5.67	6.19
APR 1237	5.33	6.33	5.33	6.33	6.67	7.00	6.00	6.14
MEPY	5.33	6.33	5.33	6.67	6.67	7.00	5.67	6.14
Pick EX2	5.00	6.00	5.67	6.67	6.33	7.67	5.67	6.14
ABT 99-4.115	5.33	6.67	5.33	6.67	6.00	7.33	5.67	6.14
Pick PR QH-97	4.67	7.00	5.33	6.67	7.00	6.67	5.67	6.14
Jet	5.00	6.00	5.67	6.00	6.67	7.00	6.33	6.10
CIS-PR-84	4.00	5.67	6.00	6.33	6.67	7.67	6.33	6.10
MP58	5.33	7.00	5.67	5.67	6.00	7.00	6.00	6.10
Phantom	5.00	6.33	5.67	6.33	6.33	7.00	6.00	6.09
DLF3	5.00	6.33	5.67	6.00	6.33	7.00	6.33	6.09
WVPB-R-82	5.33	6.67	5.33	7.00	6.33	6.33	5.33	6.05
Barefoot	5.33	6.00	5.00	6.33	6.00	7.00	6.67	6.05
Allsport	5.33	5.33	5.67	6.33	5.67	7.33	6.33	6.00
MP107	5.33	6.67	5.33	6.00	6.00	6.67	6.00	6.00

Paragon	4.67	5.67	6.00	6.33	7.00	7.00	5.33	6.00
Seville II	5.33	5.67	5.67	6.33	6.00	6.67	6.33	6.00
Pennant II	5.33	6.67	5.67	5.67	6.33	6.67	5.67	6.00
Majesty	4.33	6.00	6.00	6.33	6.67	6.33	6.33	6.00
Barlennium	5.00	6.00	5.33	6.67	6.00	6.33	6.67	6.00
Fiesta III	4.67	6.33	5.67	6.00	6.67	6.33	6.00	5.95
LPR 98-144	4.67	6.00	5.67	6.00	6.00	7.33	6.00	5.95
DLF-LDD	4.67	6.33	6.00	6.33	6.33	6.33	5.67	5.95
Affirmed	5.33	6.00	5.67	6.33	6.33	6.33	5.67	5.95
Churchill	5.00	5.00	5.67	6.67	6.67	7.00	5.67	5.95
ABT-99-4.464	4.67	6.00	5.33	6.33	6.33	7.00	6.00	5.95
Calypso II	5.00	5.67	5.33	6.67	6.33	6.67	5.67	5.91
PST-2M4	5.00	5.67	5.67	6.00	6.33	6.67	6.00	5.91
Ascend	5.00	6.00	5.67	6.00	6.33	6.67	5.67	5.91
Promise	5.00	5.67	5.33	6.00	6.67	7.00	5.67	5.91
WVPB-R-84	4.67	5.33	5.33	6.67	7.00	7.00	5.33	5.90
BY-100	4.33	6.67	5.00	6.00	6.67	6.33	6.33	5.90
Pleasure XL	5.00	6.00	6.00	6.33	6.00	5.67	6.00	5.86
PST-2SLX	4.67	5.00	5.67	6.33	7.00	6.33	6.00	5.86
Pick PRNGS	4.33	6.00	5.33	6.33	6.33	6.67	6.00	5.86
DP LP-1	4.67	5.67	5.00	6.33	6.00	7.33	6.00	5.86
JR-151	5.00	5.67	5.00	7.00	6.33	6.67	5.33	5.86
Cathedral II	5.00	6.00	5.00	6.33	5.67	7.33	5.67	5.86
Panther	5.67	6.33	5.33	6.00	6.00	5.67	5.67	5.81
APR 1234	4.67	5.33	5.00	6.33	6.67	7.00	5.67	5.81
APR 1231	4.67	5.67	5.33	6.33	6.67	6.33	5.67	5.81
APR 1235	4.33	5.33	6.00	6.67	6.33	6.67	5.33	5.81
APR 1236	4.67	5.00	5.33	6.33	6.67	7.00	5.67	5.81
Pick MDR	4.67	6.00	5.33	6.33	6.00	6.67	5.33	5.76
ABT-99-4.960	5.00	6.00	5.00	6.67	6.00	6.33	5.33	5.76
CIS-PR-78	4.33	5.00	6.00	6.00	7.00	6.33	5.67	5.76
Premier II	5.00	5.67	5.33	6.33	6.00	6.33	5.67	5.76
Charger II	4.33	6.33	6.00	5.67	5.67	6.33	6.00	5.76
JR-128	3.67	5.67	5.00	6.67	6.33	6.67	6.33	5.76
6011	4.33	5.67	5.00	6.33	6.33	6.67	5.67	5.71
YatsuGreen	3.67	5.33	5.00	7.00	6.33	6.67	6.00	5.71
CIS-PR-69	3.67	5.00	5.67	6.67	6.67	6.33	5.67	5.67
SRX 4RHT	4.33	5.67	5.33	6.33	6.00	6.33	5.67	5.67

EP57	4.67	6.00	5.33	6.33	6.00	5.67	5.67	5.67
DP 17-9391	4.00	6.00	4.33	6.33	6.00	7.00	5.67	5.62
PST-2A6B	4.33	5.33	5.00	6.00	6.67	6.33	5.67	5.62
Palmer III	4.00	6.00	5.33	5.67	6.00	6.33	6.00	5.62
ABT-99-4.633	4.33	6.00	5.67	6.33	6.00	6.00	5.00	5.62
MP103	4.00	6.33	5.00	6.67	6.00	6.33	5.00	5.62
CIS-PR-85	4.00	5.67	5.33	6.33	6.33	6.67	4.67	5.57
Wilmington	4.67	5.00	5.00	6.33	6.33	7.00	4.67	5.57
Roberts-627	4.33	6.33	5.67	6.00	5.67	6.00	5.00	5.57
ABT-99-4.834	4.67	4.33	5.33	6.67	6.00	6.33	5.67	5.57
PST-2SBE	4.00	4.33	5.33	6.33	6.67	6.67	5.67	5.57
Line Drive	3.67	5.33	5.33	6.67	6.33	6.33	5.33	5.57
ABT-99-4.600	4.00	6.33	5.00	6.00	5.67	5.67	6.00	5.52
ABT-99-4.339	4.00	5.33	5.33	6.33	5.67	6.00	6.00	5.52
APR 1232	4.67	6.33	5.00	6.00	5.67	5.67	5.33	5.52
SRX 4120	4.33	5.67	4.67	6.33	6.00	6.00	5.67	5.52
APR 1233	3.67	5.33	5.00	6.00	6.33	6.33	5.67	5.48
CAS-LP84	4.33	4.67	5.33	6.33	6.00	6.33	5.33	5.47
ABT-99-4.815	4.00	5.00	5.33	6.00	6.33	6.00	5.33	5.43
Brightstar II	4.33	5.00	5.67	6.00	6.00	5.33	5.67	5.43
LTP 98-501	4.00	5.67	5.33	6.67	6.00	5.67	4.67	5.43
Edge	4.00	6.00	5.00	6.00	5.33	5.67	6.00	5.43
CIS-PR-80	3.67	5.67	5.67	6.00	6.00	6.00	5.00	5.43
Headstart	4.00	5.67	4.67	6.00	6.00	6.33	5.33	5.43
PST-2BR	4.00	4.67	5.00	5.33	6.33	6.67	6.00	5.43
APR 776	3.67	5.67	4.67	6.33	6.00	6.00	5.67	5.43
ABT-99-4.560	4.33	5.67	4.67	6.33	5.33	6.33	5.33	5.43
ABT-99-4.724	4.00	6.33	5.00	6.00	6.00	6.00	4.67	5.43
PST-2L96	3.67	5.67	6.00	6.33	6.00	6.00	4.33	5.43
EPD	4.00	6.00	5.00	6.67	6.33	5.33	4.67	5.43
SRX 4820	4.00	5.33	5.33	6.33	5.67	6.00	5.33	5.43
ABT-99-4.903	3.67	5.33	5.33	6.00	6.00	6.33	5.00	5.38
B1	4.33	5.33	5.67	6.33	5.67	6.00	4.33	5.38
ABT-99-4.753	4.00	5.67	5.67	5.67	6.33	6.00	4.33	5.38
ABT-99-4.461	3.67	5.67	6.00	6.33	5.00	5.67	5.00	5.33
JR-317	3.67	4.33	4.67	6.33	6.33	6.00	6.00	5.33
APR 777	3.33	5.00	5.00	6.00	5.67	6.67	5.33	5.29
MDP	4.67	4.67	5.00	6.00	5.67	5.67	5.33	5.29

CIS-PR-75	3.67	5.33	5.33	6.00	5.33	6.00	5.33	5.28
NJ-6401	4.00	5.33	5.00	6.33	5.33	5.33	5.67	5.28
BAR 9 B2	4.33	5.00	5.00	6.33	6.33	5.33	4.67	5.28
Racer	4.33	5.33	5.33	5.67	5.33	5.67	5.33	5.28
Divine	3.67	5.33	5.33	6.00	5.67	6.00	4.67	5.24
Catalina	4.00	4.67	4.67	6.33	5.67	6.00	5.33	5.24
PST-2JH	3.67	5.33	5.00	6.00	5.67	6.33	4.67	5.24
Pizzazz	3.00	4.33	5.00	6.67	7.00	5.67	5.00	5.24
PST-2CRL	3.67	5.00	5.00	5.67	6.00	6.33	4.67	5.19
ABT-99-4.709	4.33	5.67	5.00	6.00	5.33	5.67	4.33	5.19
ABT-99-4.629	3.33	4.67	5.33	6.67	6.00	5.33	5.00	5.19
Pick RC2	3.00	4.33	5.00	6.00	6.67	6.00	5.00	5.14
DP 17-9496	4.00	5.33	4.67	5.33	4.67	6.67	5.33	5.14
Skyhawk	3.67	4.33	4.67	5.67	5.67	6.33	5.33	5.10
ABT-99-4.721	3.33	5.33	5.00	5.67	5.67	5.33	5.33	5.09
DP 17-9069	3.67	5.33	4.00	6.33	5.00	6.00	5.33	5.09
Exacta	3.67	5.00	4.67	6.33	5.00	5.00	5.33	5.00
Nexus	4.00	4.67	5.00	5.67	5.67	5.33	4.67	5.00
ABT-99-4.625	3.33	6.00	4.33	6.00	5.33	5.33	4.67	5.00
Pick PR 1-94	3.00	4.33	4.00	6.33	6.33	6.00	4.67	4.95
LPR-98-143	3.00	4.33	5.00	5.67	5.67	6.00	4.67	4.91
ABT-99-4.965	3.33	4.33	4.67	6.00	4.67	6.00	4.33	4.76
AG-P981	3.33	4.33	4.33	6.00	5.00	5.33	4.33	4.66
LTP-ME	3.33	4.67	3.67	6.33	4.67	4.67	5.00	4.62
Linn	3.67	4.33	4.33	5.00	5.33	4.67	4.33	4.52
Passport	2.67	5.00	4.67	5.33	5.00	5.00	4.00	4.52
PST-2LA	3.67	4.00	4.33	5.33	4.67	5.00	4.33	4.48
lsd (0.05)	1.88	2.07	1.18	1.13	1.41	1.90	1.60	

**Table 11. NTEP 1999 Perennial Ryegrass Test. 2000 spring green-up, fall plot coverage and genetic colour.**

<u>Entry</u>	<u>Spring Green-up</u>	<u>Fall Plot Coverage</u>	<u>Genetic Colour</u>
CIS-PR-72	6.33	91.7	7.00
CIS-PR-78	6.00	83.3	7.33
MP58	6.00	86.7	7.67
Calypso II	5.67	81.7	5.67
EP57	5.67	68.3	6.33
ABT-99-4.724	5.67	73.3	7.33
LTP-ME	5.33	63.3	6.67
Seville II	5.33	85.0	7.67
CIS-PR-85	5.33	90.0	6.67
Esquire	5.33	90.0	7.00
ABT-99-4.960	5.33	71.7	8.00
Promise	5.33	81.7	6.67
LTP 98-501	5.33	73.3	7.00
Pick EX2	5.00	91.3	6.00
Barefoot	5.00	85.0	6.00
Paragon	5.00	86.7	6.33
SRX 4820	5.00	71.7	6.33
B1	5.00	71.7	7.33
Koos R-71	5.00	86.3	6.67
MEPY	5.00	83.3	7.67
SRX 4801	5.00	88.0	7.33
APR 1236	5.00	80.0	6.00
MP107	5.00	78.3	7.00
ABT-99-4.464	5.00	70.0	5.67
Barlennium	5.00	86.7	6.67
CIS-PR-69	5.00	76.7	7.33
Pennington-11301	4.67	88.3	7.33
Affinity	4.67	84.7	5.33
DP LP-1	4.67	86.7	6.00
DLF-LDD	4.67	78.3	7.33
ABT-99-4.834	4.67	75.0	8.33
Fiesta III	4.67	80.0	7.00
Affirmed	4.67	85.0	5.67
Racer	4.67	81.7	6.00

APR 1231	4.67	81.7	6.00
EP53	4.67	93.3	7.33
Elfkin	4.67	86.7	7.00
JR-151	4.67	84.7	5.67
Premier II	4.67	81.7	6.00
MP103	4.67	80.0	6.67
APR 1237	4.67	86.7	6.00
Pick PR QH-97	4.67	80.0	7.67
Churchill	4.33	86.7	6.33
WVPB-R-84	4.33	89.7	5.00
YatsuGreen	4.33	81.7	5.00
ABT-99-4560	4.33	81.7	6.00
Majesty	4.33	88.3	6.00
BAR 9 B2	4.33	66.7	7.67
CIS-PR-80	4.33	76.7	7.00
ABT-99-4.965	4.33	68.3	8.00
WVPB-R-82	4.33	78.3	6.33
Exacta	4.33	68.0	7.33
CIS-PR-84	4.33	91.7	8.00
Secretariat	4.33	91.3	5.67
Edge	4.33	71.7	6.33
PST-2L96	4.33	80.0	6.67
Pick MDR	4.33	83.3	7.33
BY-100	4.33	81.3	5.33
Catalina	4.33	76.7	6.33
MDP	4.33	71.7	6.33
APR 1232	4.33	80.0	5.67
SRX 4500	4.33	86.7	6.33
Palmer III	4.33	83.3	6.67
SRX 4RHT	4.33	76.7	7.33
ABT-99-4.815	4.33	73.3	6.33
Pennant II	4.33	84.7	6.67
DP 17-9496	4.33	84.7	4.33
PST-2M4	4.00	83.0	6.33
PST-2CRR	4.00	83.3	7.67
PST-2BR	4.00	81.7	7.33
PST-CATS	4.00	85.0	7.33
LPR 98-1440	4.00	86.7	7.67

R8000	4.00	85.0	7.00
Ascend	4.00	83.3	6.67
CIS-PR-75	4.33	73.3	6.67
ABT-99-4.339	4.00	83.3	5.67
Pick RC2	4.00	75.0	6.00
ABT-99-4.600	4.00	68.3	6.67
Buccaneer	4.00	86.7	5.33
PST-2SBE	4.00	78.3	7.33
Roberts-627	4.00	71.7	6.33
JR-128	4.00	80.0	6.33
PST-2CRL	4.00	75.0	7.00
DLF 3	4.00	83.3	5.67
Jet	4.00	85.0	7.00
Radiant	4.00	88.3	7.67
ABT-99-4.115	4.00	86.7	6.00
DP 17-9391	4.00	81.7	5.33
Skyhawk	4.00	71.7	6.33
APR 776	4.00	76.7	6.00
Allsport	3.67	88.3	6.67
Premier	3.67	93.0	6.00
6011	3.67	76.7	6.67
AG-P981	3.67	65.0	7.00
Pick PR B-97	3.67	90.0	7.00
Pick PRNGS	3.67	81.7	5.67
Charger II	3.67	80.0	7.00
Manhattan 3	3.67	85.0	6.00
Pick PR 1-94	3.67	73.3	7.67
JR-187	3.67	95.0	5.67
ABT-99-4.633	3.67	81.7	7.00
PST-2SLX	3.67	78.3	7.33
PST-2JH	3.67	80.0	6.33
CAS-LP84	3.67	81.7	6.67
PST-2RT	3.67	89.7	6.00
EPD	3.67	68.3	6.67
APR 1233	3.67	80.0	5.33
Pleasure XL	3.67	86.7	5.33
NJ-6401	3.67	66.7	6.00
Panther	3.67	81.7	6.00

APR 1235	3.67	78.3	5.67
Pizzazz	3.67	68.3	7.33
Divine	3.67	76.7	6.67
Wilmington	3.33	83.3	6.67
ABT-99-4.625	3.33	68.3	6.67
APR 777	3.33	83.3	5.67
PST-2A6B	3.33	78.3	6.33
SRX 4120	3.33	71.7	6.00
PST-2LA	3.33	60.0	7.00
ABT-99-4.709	3.33	76.7	5.33
APR 1234	3.33	85.0	5.67
Passport	3.33	55.0	6.33
Cathedral II	3.33	90.0	5.33
ABT-99-4.461	3.33	65.0	8.00
ABT-99-4.721	3.33	70.0	6.00
Linn	3.33	65.0	4.33
Headstart	3.33	75.0	6.33
JR-317	3.33	71.7	7.33
Line Drive	3.00	86.7	7.00
ABT-99-4.903	3.00	78.0	6.67
Nexus	3.00	63.3	6.67
DP 17-9069	3.00	69.7	5.33
ABT-99-4.753	3.00	73.3	7.00
Brightstar II	3.00	75.0	6.67
ABT-99-4.629	2.67	65.0	6.33
Phantom	2.67	88.3	6.67
LPR 98-143	2.33	66.7	6.67
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Lsd (0.05)	1.54	21.1	1.23